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L2	((436/)!.CCLS.)	0	L2
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ARTICLES

The tandem repeat domain in the Listeria monocytogenes ActA protein controls the rate of actin-based motility, the percentage of moving bacteria, and the localization of vasodilator-stimulated phosphoprotein and profilin

GA Smith, JA Theriot and DA Portnoy
Department of Microbiology, University of Pennsylvania, School of Medicine, Philadelphia 19104-4318, USA.

The ActA protein is responsible for the actin-based movement of Listeria monocytogenes in the cytosol of eukaryotic cells. Analysis of mutants in which we varied the number of proline-rich repeats (PRR; consensus sequence DFPPPPTDEEL) revealed a linear relationship between the number of PRRs and the rate of movement, with each repeat contributing approximately 2-3 microns/min. Mutants lacking all functional PRRs (generated by deletion or point mutation) moved at rates 30% of wild-type. Indirect immunofluorescence indicated that the PRRs were directly responsible for binding of vasodilator-stimulated phosphoprotein (VASP) and for the localization of profilin at the bacterial surface. The long repeats, which are interdigitated between the PRRs, increased the frequency with which actin-based motility occurred by a mechanism independent of the PRRs, VASP, and profilin. Lastly, a mutant which expressed low levels of ActA exhibited a phenotype indicative of a threshold; there was a very low percentage of moving bacteria, but when movement did occur, it was at wild-type rates. These results indicate that the ActA protein directs at least three separable events: (1) initiation of actin polymerization that is independent of the repeat region; (2) initiation of movement dependent on the long repeats and the amount of ActA; and (3) movement rate dependent on the PRRs.

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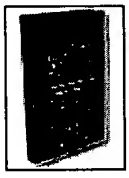

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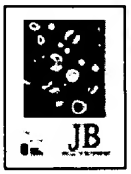

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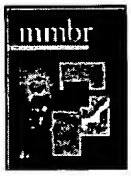

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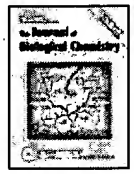

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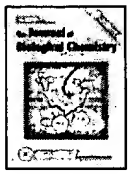

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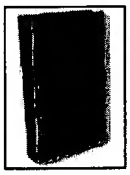

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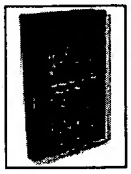

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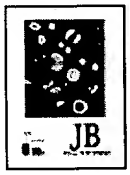

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FULL ESTIMATED COST                                       0.21       0.21

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=> e sanders
E1            3     SANDEROV/BI
E2            9     SANDEROW/BI
E3         5601 --> SANDERS/BI
E4            1     SANDERSA/BI
E5            6     SANDERSAE/BI
E6            1     SANDERSAND/BI
E7            9     SANDERSELLINI/BI
E8            5     SANDERSELLUS/BI
E9           10     SANDERSEN/BI
E10           1     SANDERSET/BI
E11           2     SANDERSETALIA/BI
E12           9     SANDERSHA/BI

=> s e3 and mitchell
L1          107 SANDERS/BI AND MITCHELL

=> s l1 and listeria
L2            1 L1 AND LISTERIA

=> d l2 abs ibib

L2   ANSWER 1 OF 1  USPATFULL
AB     Provided are methods of purifying and crystallizing Streptococcus
       pneumoniae acyl carrier protein synthase (AcpS) enzyme, crystals of
       AcpS, the use of such crystals to determine the three-dimensional
       structure of AcpS enzymes, and the three-dimensional structure of AcpS.
       The three-dimensional crystal structure of AcpS can be used in medical
       diagnostics to produce antibodies that permit detection of Streptococcus
       pneumoniae both in vitro and in vivo. The three-dimensional crystal
```

structure of AcpS can also be used in pharmaceutical discovery and development to identify and design compounds that inhibit the biochemical activity of AcpS enzyme in bacteria. Inhibitory compounds identified in this way can be optimized by structure/activity studies to develop antibacterial pharmaceutical compounds useful for the prevention or treatment of bacterial infections.

ACCESSION NUMBER: 2003:99695 USPATFULL
TITLE: Use of streptococcus pneumoniae acyl carrier protein synthase crystal structure in diagnostics, antimicrobial drug design, and biosensors
INVENTOR(S): Chirgadze, Nicholas Yuri, Indianapolis, IN, UNITED STATES
Briggs, Stephen Lyle, Indianapolis, IN, UNITED STATES
Zhao, Genshi, Indianapolis, IN, UNITED STATES
McAllister, Kelly Ann, Indianapolis, IN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003068802	A1	20030410
APPLICATION INFO.:	US 2001-897645	A1	20010629 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-215577P	20000630 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ELI LILLY AND COMPANY, PATENT DIVISION, P.O. BOX 6288, INDIANAPOLIS, IN, 46206-6288
NUMBER OF CLAIMS: 31
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Page(s)
LINE COUNT: 14574

=> s l1 and device
L3 47 L1 AND DEVICE

=> s l3 and prokaryote
L4 4 L3 AND PROKARYOTE

=> d l4 ibib abs

L4 ANSWER 1 OF 4 USPATFULL
ACCESSION NUMBER: 2003:17384 USPATFULL
TITLE: Human KCR1 regulation of HERG potassium channel block
INVENTOR(S): Balser, Jeffrey R., Brentwood, TN, UNITED STATES
George, Alfred L., JR., Brentwood, TN, UNITED STATES
Roden, Dan M., Nashville, TN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003013136	A1	20030116
APPLICATION INFO.:	US 2001-151	A1	20011030 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-244340P	20001030 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: JENKINS & WILSON, PA, 3100 TOWER BLVD, SUITE 1400, DURHAM, NC, 27707
NUMBER OF CLAIMS: 99
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Page(s)
LINE COUNT: 5075

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention discloses methods relating to screening methods and methods of identifying a compound that can modulate HERG potassium channel activity. The methods generally employ at least HERG and KCR1 polypeptides. The disclosed methods can be applied in the development of a candidate pharmaceutical or they can be employed to evaluate presently marketed pharmaceuticals.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d l4 ibib abs 1-4

L4 ANSWER 1 OF 4 USPATFULL

ACCESSION NUMBER:	2003:17384 USPATFULL			
TITLE:	Human KCR1 regulation of HERG potassium channel block			
INVENTOR(S):	Balser, Jeffrey R., Brentwood, TN, UNITED STATES George, Alfred L., JR., Brentwood, TN, UNITED STATES Roden, Dan M., Nashville, TN, UNITED STATES			
	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003013136	A1	20030116	
APPLICATION INFO.:	US 2001-151	A1	20011030	(10)
	NUMBER		DATE	
PRIORITY INFORMATION:	US 2000-244340P		20001030	(60)
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	JENKINS & WILSON, PA, 3100 TOWER BLVD, SUITE 1400, DURHAM, NC, 27707			
NUMBER OF CLAIMS:	99			
EXEMPLARY CLAIM:	1			
NUMBER OF DRAWINGS:	9 Drawing Page(s)			
LINE COUNT:	5075			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention discloses methods relating to screening methods and methods of identifying a compound that can modulate HERG potassium channel activity. The methods generally employ at least HERG and KCR1 polypeptides. The disclosed methods can be applied in the development of a candidate pharmaceutical or they can be employed to evaluate presently marketed pharmaceuticals.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 2 OF 4 USPATFULL

ACCESSION NUMBER:	2002:323337 USPATFULL			
TITLE:	Sequences of hepatitis C virus genotypes and their use as prophylactic, therapeutic and diagnostic agents			
INVENTOR(S):	Maertens, Geert, Brugge, BELGIUM Stuyver, Lieven, Herzele, BELGIUM			
PATENT ASSIGNEE(S):	Innogenetics N.V. (non-U.S. corporation)			
	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002183508	A1	20021205	
APPLICATION INFO.:	US 2001-851138	A1	20010509	(9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1997-836075, filed on 22 Apr 1997, PENDING			
	NUMBER		DATE	
PRIORITY INFORMATION:	EP 1995-870076		19950628	
	EP 1994-870166		19941021	
DOCUMENT TYPE:	Utility			

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: B. J. Sadoff, NIXON & VANDERHYE P.C., 8th Floor, 1100 N. Glebe Road, Arlington, VA, 22201
NUMBER OF CLAIMS: 62
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 74 Drawing Page(s)
LINE COUNT: 5108
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to new genomic nucleotide sequences and amino acid sequences corresponding to the coding region of these genomes. The invention relates to new HCV types and subtypes sequences which are different from the known HCV types and subtypes. More particularly, the present invention relates to new HCV type 7 sequences, new HCV type 9 sequences, new HCV type 10 and new HCV type 11 sequences. Also, the present invention relates to new HCV type 1 sequences of subtypes 1d, 1e, 1f and 1g; new HCV type 2 sequences of subtypes 2e, 2f, 2g, 2h, 2I, 2k and 2l; new HCV type 3 sequences of subtype 3g, new HCV type 4 sequences of subtypes 4k, 4l and 4m; a process for preparing them, and their use for diagnosis, prophylaxis and therapy. More particularly, the present invention provides new type-specific sequences of the Core, the E1 and the NS5 regions of new HCV types 7, 9, 10 and 11, as well as of new variants (subtypes) of HCV types 1, 2, 3 and 4. These new HCV sequences are useful to diagnose the presence of HCV type 1, and/or type 2, and/or type 3, and/or type 4, and/or type 7, and/or 9, and/or type 10, and/or type 11 genotypes or serotypes in a biological sample. Moreover, the availability of these new type-specific sequences can increase the overall sensitivity of HCV detection and should also prove to be useful for prophylactic and therapeutic purposes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 4 USPATFULL
ACCESSION NUMBER: 2002:112873 USPATFULL
TITLE: Use of insulin for the treatment of cartilagenous disorders
INVENTOR(S): Filvaroff, Ellen H., San Francisco, CA, UNITED STATES
Okumu, Franklin W., Oakland, CA, UNITED STATES
PATENT ASSIGNEE(S): GENENTECH, INC. (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002058614	A1	20020516	
APPLICATION INFO.:	US 2001-815229	A1	20010322	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-192103P	20000324 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: GENENTECH, INC., 1 DNA WAY, SOUTH SAN FRANCISCO, CA, 94080
NUMBER OF CLAIMS: 48
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 26 Drawing Page(s)
LINE COUNT: 5581
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to methods for the treatment and repair of cartilage, including cartilage damaged by injury or cartilagenous disorders, including arthritis, comprising the administration of insulin and/or insulin variants. Optionally, the administration may be in combination with a cartilage agent (e.g., peptide growth factor, catabolism antagonist, osteo-, synovial, anti-inflammatory factor), in an extended- or sustained-release form. Alternatively, the method provides for the treatment and repair of cartilage damaged by injury or cartilagenous disorders comprising the administration of insulin and/or insulin in combination with standard surgical techniques. Alternatively,

the method provides for the treatment and repair of cartilage damaged by injury or cartilagenous disorders comprising the administration of chondrocytes previously treated with an effective amount of insulin and/or insulin variant.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 4 USPATFULL

ACCESSION NUMBER:	2001:14623 USPATFULL			
TITLE:	Sequences of hepatitis C virus genotypes and their use as prophylactic, therapeutic and diagnostic agents			
INVENTOR(S):	Maertens, Geert, Bruges, Belgium Stuyver, Lieven, Herzele, Belgium			
PATENT ASSIGNEE(S):	Innogenetics N.V., Ghent, Belgium (non-U.S. corporation)			
	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6180768	B1	20010130	
	WO 9613590		19960509	
APPLICATION INFO.:	US 1997-836075		19970421	(8)
	WO 1995-EP4155		19951023	
			19970421	PCT 371 date
			19970421	PCT 102(e) date
	NUMBER		DATE	
PRIORITY INFORMATION:	EP 1994-870166		19941021	
	EP 1995-870076		19950628	
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	Granted			
PRIMARY EXAMINER:	Eisenschenk, Frank C.			
ASSISTANT EXAMINER:	Zeman, Mary K			
LEGAL REPRESENTATIVE:	Arnold, White & Durkee			
NUMBER OF CLAIMS:	12			
EXEMPLARY CLAIM:	1			
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 74 Drawing Page(s)			
LINE COUNT:	2349			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to new genomic nucleotide sequences and amino acid sequences corresponding to the coding region of these genomes. The invention relates to new HCV types and subtypes sequences which are different from the known HCV types and subtypes sequences. More particularly, the present invention relates to new HCV type 7 sequences, new HCV type 9 sequences, new HCV type 10 and new HCV type 11 sequences. Also, the present invention relates to new HCV type 1 sequences of subtypes 1d, 1e, 1f and 1g; new HCV type 2 sequences of subtypes 2e, 2f, 2g, 2h, 2i, 2k and 2l; new HCV type 3 sequences of subtype 3g, new HCV type 4 sequences of subtypes 4k, 4l and 4m; a process for preparing them, and their use for diagnosis, prophylaxis and therapy. More particularly, the present invention provides new type-specific sequences of the Core, the E1 and NS5 regions of new HCV types 7, 9, 10 and 11, as well as of new variants (subtypes) of HCV types 1, 2, 3 and 4. These new HCV sequences are useful to diagnose the presence of HCV type 1, and/or type 2, and/or type 3, and/or type 4, and/or type 7, and/or type 9, and/or type 10, and/or type 11 genotypes or serotypes in a biological sample. Moreover, the availability of these new type-specific sequences can increase the overall sensitivity of HCV detection and should also prove to be useful for prophylactic and therapeutic purposes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s protease
L5 413014 PROTEASE

```
=> s l5 and metalloprotease
L6          7957 L5 AND METALLOPROTEASE

=> s l6 and listeria
L7            92 L6 AND LISTERIA

=> s l7 and detect?
L8            65 L7 AND DETECT?

=> s l8 and fluores?
L9            41 L8 AND FLUORES?

=> d l9 ibi abs 1-41
'IBI' IS NOT A VALID FORMAT FOR FILE 'USPATFULL'

The following are valid formats:

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ABS -------- AB
ALL -------- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, PTERM, DCD,
             RLI, PRAI, DT, FS, REP, REN, EXNAM, LREP, CLMN, ECL,
             DRWN, AB, GOVI, PARN, SUMM, DRWD, DETD, CLM, INCL,
             INCLM, INCLS, NCL, NCLM, NCLS, IC, ICM, ICS,
             EXF, ARTU
ALLG ------- ALL plus PAGE.DRAW
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             PRAI, DT, FS, EXNAM, LREP, CLMN, ECL, DRWN, LN.CNT
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BIBG ------- BIB plus PAGE.DRAW
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             entered on the same line as DISPLAY, e.g., D BROWSE.
CAS -------- OS, CC, SX, ST, IT
CBIB ------- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, PRAI, DT, FS
DALL ------- ALL, delimited for post-processing
FP --------- PI, TI, IN, INA, PA, PAA, PAT, PTERM, DCD, AI, RLI,
             PRAI, IC, ICM, ICS, INCL, INCLM, INCLS, NCL,
             NCLM, NCLS, EXF, REP, REN, ARTU, EXNAM, LREP,
             CLMN, DRWN, AB
FP.EX ------ FP for original and latest publication
FPALL ------ PI, TI, IN, INA, PA, PAA, PAT, PETRM, DCD, AI,
             RLI, PRAI, IC, ICM, ICS, INCL, INCLM, INCLS, NCL, NCLM,
             NCLS, EXF, REP, REN,ARTU, EXNAM, LREP, CLMN, DRWN, AB,
             PARN, SUMM, DRWD, DETD, CLM
FPBIB ------ PI, TI, IN, INA, PA, PAA, PAT, PTERM, DCD, AI,
             RLI, PRAI, REP, REN, EXNAM, LREP, CLM, CLMN, DRWN
FHITSTR ---- HIT RN, its text modification, its CA index name, and
             its structure diagram
FPG -------- FP plus PAGE.DRAW
GI --------- PN and page image numbers
HIT -------- All fields containing hit terms
HITRN ------ HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
             its structure diagram
IABS ------- ABS, indented with text labels
IALL ------- ALL, indented with text labels
IALLG ------ IALL plus PAGE.DRAW
IBIB ------- BIB, indented with text labels
IBIB.EX ---- IBIB for original and latest publication
IBIBG ------ IBIB plus PAGE.DRAW
IMAX ------- MAX, indented with text labels
IMAX.EX ---- IMAX for original and latest publication
IND -------- INCL, INCLM, INCLS, NCL, NCLM, NCLS, IC, ICM, ICS,
             EXF, ARTU, OS, CC, SX, ST, IT
ISTD ------- STD, indented with text labels
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             CLMN, DRWN, AB
FP.EX ------ FP for original and latest publication
FPALL ------ PI, TI, IN, INA, PA, PAA, PAT, PETRM, DCD, AI,
             RLI, PRAI, IC, ICM, ICS, INCL, INCLM, INCLS, NCL, NCLM,
             NCLS, EXF, REP, REN,ARTU, EXNAM, LREP, CLMN, DRWN, AB,
             PARN, SUMM, DRWD, DETD, CLM
FPBIB ------ PI, TI, IN, INA, PA, PAA, PAT, PTERM, DCD, AI,
             RLI, PRAI, REP, REN, EXNAM, LREP, CLM, CLMN, DRWN
FHITSTR ---- HIT RN, its text modification, its CA index name, and
             its structure diagram
FPG -------- FP plus PAGE.DRAW
GI --------- PN and page image numbers
HIT -------- All fields containing hit terms
HITRN ------ HIT RN and its text modification
HITSTR ----- HIT RN, its text modification, its CA index name, and
             its structure diagram
IABS ------- ABS, indented with text labels
IALL ------- ALL, indented with text labels
IALLG ------ IALL plus PAGE.DRAW
IBIB ------- BIB, indented with text labels
IBIB.EX ---- IBIB for original and latest publication
IBIBG ------ IBIB plus PAGE.DRAW
IMAX ------- MAX, indented with text labels
IMAX.EX ---- IMAX for original and latest publication
IND -------- INCL, INCLM, INCLS, NCL, NCLM, NCLS, IC, ICM, ICS,
             EXF, ARTU, OS, CC, SX, ST, IT
ISTD ------- STD, indented with text labels
KWIC ------- All hit terms plus 20 words on either side
MAX -------- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, PTERM, DCD,
             RLI, PRAI, DT, FS, REP, REN, EXNAM, LREP, CLMN, ECL,
             DRWN, AB, GOVI, PARN, SUMM, DRWD, DETD, CLM, INCL,
             INCLM, INCLS, NCL, NCLM, NCLS, IC, ICM, ICS,
             EXF, ARTU OS, CC, SX, ST, IT
MAX.EX ----- MAX for original and latest publication
OCC -------- List of display fields containing hit terms
SBIB ------- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, RLI, PRAI,
             DT, FS, LN.CNT
SCAN ------- AN, TI, NCL, NCLM, NCLS, IC, ICM, ICS (random display
             without answer number.  SCAN must be entered on the
             same line as DISPLAY, e.g., D SCAN)
STD -------- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, RLI, PRAI,
             DT, FS, LN.CNT, INCL, INCLM, INCLS, NCL, NCLM, NCLS,
             IC, ICM, ICS, EXF (STD is the default)
STD.EX ----- STD for original and latest publication
TRIAL ------ AN, TI, INCL, INCLM, INCLS, NCL, NCLM, NCLS, IC,
             ICM, ICS

ENTER DISPLAY FORMAT (STD):end

=> d l9 ibib abs 1-41

L9   ANSWER 1 OF 41  USPATFULL
ACCESSION NUMBER:        2003:102443  USPATFULL
TITLE:                   Complementary DNA's encoding proteins with signal
                         peptides
INVENTOR(S):             Edwards, Jean-Baptiste Dumas Milne, Paris, FRANCE
                         Bougueleret, Lydie, Vanves, FRANCE
                         Jobert, Severin, Paris, FRANCE
PATENT ASSIGNEE(S):      Genset, S.A., FRANCE (non-U.S. corporation)

                              NUMBER       KIND    DATE
                         ---------------- ------ --------
PATENT INFORMATION:      US 6548633          B1   20030415
APPLICATION INFO.:       US 2000-599360           20000621  (9)
RELATED APPLN. INFO.:    Continuation-in-part of Ser. No. US 1999-469099, filed
                         on 21 Dec 1999, now abandoned
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	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-141032P	19990625 (60)
	US 1998-113686P	19981222 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Horlick, Kenneth R.
ASSISTANT EXAMINER: Kim, Young
LEGAL REPRESENTATIVE: Saliwanchik, Lloyd & Saliwanchik
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 13743

AB The sequences of cDNAs encoding secreted proteins are disclosed. The cDNAs can be used to express secreted proteins or fragments thereof or to obtain antibodies capable of specifically binding to the secreted proteins. The cDNAs may also be used in diagnostic, forensic, gene therapy, and chromosome mapping procedures. The cDNAs may also be used to design expression vectors and secretion vectors.

L9 ANSWER 2 OF 41 USPATFULL
ACCESSION NUMBER: 2003:102442 USPATFULL
TITLE: Fusions of scaffold proteins with random peptide libraries
INVENTOR(S): Anderson, David, San Bruno, CA, United States
Peelle, Beau Robert, San Francisco, CA, United States
Bogenberger, Jakob Maria, San Mateo, CA, United States
PATENT ASSIGNEE(S): Rigel Pharmaceuticals, Inc., South San Francisco, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6548632	B1	20030415
APPLICATION INFO.:	US 1999-415765		19991008 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-169015, filed on 8 Oct 1998, now patented, Pat. No. US 6180343
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Brusca, John S.
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 8 Drawing Page(s)
LINE COUNT: 4469

AB The invention relates to the use of scaffold proteins, particularly green **fluorescent** protein (GFP), in fusion constructs with random and defined peptides and peptide libraries, to increase the cellular expression levels, decrease the cellular catabolism, increase the conformational stability relative to linear peptides, and to increase the steady state concentrations of the random peptides and random peptide library members expressed in cells for the purpose of **detecting** the presence of the peptides and screening random peptide libraries. N-terminal, C-terminal, dual N- and C-terminal and one or more internal fusions are all contemplated. Novel fusions utilizing self-binding peptides to create a conformationally stabilized fusion domain are also contemplated.

L9 ANSWER 3 OF 41 USPATFULL
ACCESSION NUMBER: 2003:102234 USPATFULL
TITLE: Fusions of scaffold proteins with random peptide libraries
INVENTOR(S): Anderson, David, San Bruno, CA, United States
Peelle, Beau Robert, San Francisco, CA, United States
Bogenberger, Jakob Maria, San Mateo, CA, United States

PATENT ASSIGNEE(S): Rigel Pharmaceuticals, Inc., South San Francisco, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6548249	B1	20030415
APPLICATION INFO.:	US 2000-626581		20000727 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1999-415765, filed on 8 Oct 1999 Continuation-in-part of Ser. No. US 1998-169015, filed on 8 Oct 1998, now patented, Pat. No. US 6180343
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Brusca, John S.
NUMBER OF CLAIMS: 33
EXEMPLARY CLAIM: 29
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 8 Drawing Page(s)
LINE COUNT: 4415

AB The invention relates to the use of scaffold proteins, particularly green **fluorescent** protein (GFP), in fusion constructs with random and defined peptides and peptide libraries, to increase the cellular expression levels, decrease the cellular catabolism, increase the conformational stability relative to linear peptides, and to increase the steady state concentrations of the random peptides and random peptide library members expressed in cells for the purpose of **detecting** the presence of the peptides and screening random peptide libraries. N-terminal, C-terminal, dual N- and C-terminal and one or more internal fusions are all contemplated. Novel fusions utilizing self-binding peptides to create a conformationally stabilized fusion domain are also contemplated.

L9 ANSWER 4 OF 41 USPATFULL
ACCESSION NUMBER: 2003:100294 USPATFULL
TITLE: 70 human secreted proteins
INVENTOR(S): Ruben, Steven M., Olney, MD, UNITED STATES
Young, Paul E., Gaithersburg, MD, UNITED STATES
Brewer, Laurie A., St. Paul, MN, UNITED STATES
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES
Florence, Kimberly A., Rockville, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
Duan, Roxanne D., Bethesda, MD, UNITED STATES
Moore, Paul A., Germantown, MD, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
LaFleur, David W., Washington, DC, UNITED STATES
Florence, Charles, Rockville, MD, UNITED STATES
Soppet, Daniel R., Centreville, VA, UNITED STATES
Endress, Gregory A., Florence, MA, UNITED STATES
Feng, Ping, Germantown, MD, UNITED STATES
Komatsoulis, George A., Silver Spring, MD, UNITED STATES
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003069405	A1	20030410
APPLICATION INFO.:	US 2002-144929	A1	20020515 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2000-716128, filed on 17 Nov 2000, PENDING Continuation of Ser. No. US 1999-251329, filed on 17 Feb 1999, ABANDONED Continuation-in-part of Ser. No. WO 1998-US17044, filed on 18 Aug 1998, UNKNOWN

	NUMBER	DATE

PRIORITY INFORMATION: US 1997-56369P 19970819 (60)
US 1997-56535P 19970819 (60)
US 1997-56556P 19970819 (60)
US 1997-56555P 19970819 (60)
US 1997-56726P 19970819 (60)
US 1997-56368P 19970819 (60)
US 1997-56728P 19970819 (60)
US 1997-56628P 19970819 (60)
US 1997-56629P 19970819 (60)
US 1998-89510P 19980616 (60)
US 1998-92956P 19980715 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
LINE COUNT: 12259
AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human secreted proteins.

L9 ANSWER 5 OF 41 USPATFULL
ACCESSION NUMBER: 2003:93795 USPATFULL
TITLE: Novel human genes and gene expression products I
INVENTOR(S): Williams, Lewis T., Mill Valley, CA, UNITED STATES
Escobedo, Jaime, Alamo, CA, UNITED STATES
Innis, Michael A., Moraga, CA, UNITED STATES
Garcia, Pablo Dominguez, San Francisco, CA, UNITED STATES
Sudduth-Klinger, Julie, Kensington, CA, UNITED STATES
Reinhard, Christoph, Alameda, CA, UNITED STATES
Giese, Klause, San Francisco, CA, UNITED STATES
Randazzo, Filippo, Emeryville, CA, UNITED STATES
Kennedy, Giulia C., San Francisco, CA, UNITED STATES
Pot, David, San Francisco, CA, UNITED STATES
Kassam, Atlaf, Oakland, CA, UNITED STATES
Lamson, George, Moraga, CA, UNITED STATES
Drmanac, Radoje, Palo Alto, CA, UNITED STATES
Crkvenjakov, Radomir, Sunnyvale, CA, UNITED STATES
Dickson, Mark, Hollister, CA, UNITED STATES
Drmanac, Snezana, Palo Alto, CA, UNITED STATES
Labat, Ivan, Sunnyvale, CA, UNITED STATES
Leshkowitz, Dena, Sunnyvale, CA, UNITED STATES
Kita, David, Foster City, CA, UNITED STATES
Garcia, Veronica, Sunnyvale, CA, UNITED STATES
Jones, Lee William, Sunnyvale, CA, UNITED STATES
Stache-Crain, Birgit, Sunnyvale, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003065156	A1	20030403
APPLICATION INFO.:	US 2002-76555	A1	20020215 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1998-217471, filed on 21 Dec 1998, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-68755P	19971223 (60)
	US 1998-80664P	19980403 (60)
	US 1998-105234P	19981021 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: BOZICEVIC, FIELD & FRANCIS LLP, 200 MIDDLEFIELD RD, SUITE 200, MENLO PARK, CA, 94025
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
LINE COUNT: 15408

AB This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostic and therapeutic agents employing such novel human polymucleotides, their corresponding genes or gene products, e.g., these genes and proteins, including probes, antisense constructs, and antibodies.

L9 ANSWER 6 OF 41 USPATFULL
ACCESSION NUMBER: 2003:86302 USPATFULL
TITLE: Nucleic acids, proteins, and antibodies
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003059908	A1	20030327
APPLICATION INFO.:	US 2002-91504	A1	20020307 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-764869, filed on 17 Jan 2001, ABANDONED

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-179065P	20000131 (60)
	US 2000-180628P	20000204 (60)
	US 2000-214886P	20000628 (60)
	US 2000-217487P	20000711 (60)
	US 2000-225758P	20000814 (60)
	US 2000-220963P	20000726 (60)
	US 2000-217496P	20000711 (60)
	US 2000-225447P	20000814 (60)
	US 2000-218290P	20000714 (60)
	US 2000-225757P	20000814 (60)
	US 2000-226868P	20000822 (60)
	US 2000-216647P	20000707 (60)
	US 2000-225267P	20000814 (60)
	US 2000-216880P	20000707 (60)
	US 2000-225270P	20000814 (60)
	US 2000-251869P	20001208 (60)
	US 2000-235834P	20000927 (60)
	US 2000-234274P	20000921 (60)
	US 2000-234223P	20000921 (60)
	US 2000-228924P	20000830 (60)
	US 2000-224518P	20000814 (60)
	US 2000-236369P	20000929 (60)
	US 2000-224519P	20000814 (60)
	US 2000-220964P	20000726 (60)
	US 2000-241809P	20001020 (60)
	US 2000-249299P	20001117 (60)
	US 2000-236327P	20000929 (60)
	US 2000-241785P	20001020 (60)
	US 2000-244617P	20001101 (60)
	US 2000-225268P	20000814 (60)
	US 2000-236368P	20000929 (60)
	US 2000-251856P	20001208 (60)

US 2000-251868P 20001208 (60)
US 2000-229344P 20000901 (60)
US 2000-234997P 20000925 (60)
US 2000-229343P 20000901 (60)
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US 2000-232080P 20000908 (60)
US 2000-231414P 20000908 (60)
US 2000-231244P 20000908 (60)
US 2000-233064P 20000914 (60)
US 2000-233063P 20000914 (60)
US 2000-232397P 20000914 (60)
US 2000-232399P 20000914 (60)
US 2000-232401P 20000914 (60)
US 2000-241808P 20001020 (60)
US 2000-241826P 20001020 (60)
US 2000-241786P 20001020 (60)
US 2000-241221P 20001020 (60)
US 2000-246475P 20001108 (60)
US 2000-231243P 20000908 (60)
US 2000-233065P 20000914 (60)
US 2000-232398P 20000914 (60)
US 2000-234998P 20000925 (60)

US 2000-246477P	20001108	(60)
US 2000-246528P	20001108	(60)
US 2000-246525P	20001108	(60)
US 2000-246476P	20001108	(60)
US 2000-246526P	20001108	(60)
US 2000-249209P	20001117	(60)
US 2000-246527P	20001108	(60)
US 2000-246523P	20001108	(60)
US 2000-246524P	20001108	(60)
US 2000-246478P	20001108	(60)
US 2000-246609P	20001108	(60)
US 2000-246613P	20001108	(60)
US 2000-249300P	20001117	(60)
US 2000-249265P	20001117	(60)
US 2000-246610P	20001108	(60)
US 2000-246611P	20001108	(60)
US 2000-230437P	20000906	(60)
US 2000-251990P	20001208	(60)
US 2000-251988P	20001205	(60)
US 2000-251030P	20001205	(60)
US 2000-251479P	20001206	(60)
US 2000-256719P	20001205	(60)
US 2000-250160P	20001201	(60)
US 2000-251989P	20001208	(60)
US 2000-250391P	20001201	(60)
US 2000-254097P	20001211	(60)
US 2000-231968P	20000912	(60)
US 2000-226279P	20000818	(60)
US 2000-186350P	20000302	(60)
US 2000-184664P	20000224	(60)
US 2000-189874P	20000316	(60)
US 2000-198123P	20000418	(60)
US 2000-227009P	20000823	(60)
US 2000-235484P	20000926	(60)
US 2000-190076P	20000317	(60)
US 2000-209467P	20000607	(60)
US 2000-205515P	20000519	(60)
US 2001-259678P	20010105	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 28555
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel cardiovascular system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "cardiovascular system antigens," and the use of such cardiovascular system antigens for **detecting** disorders of the cardiovascular system, particularly the presence of cancer of cardiovascular system tissues and cancer metastases. More specifically, isolated cardiovascular system associated nucleic acid molecules are provided encoding novel cardiovascular system associated polypeptides. Novel cardiovascular system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human cardiovascular system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the cardiovascular system, including cancer of cardiovascular system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the

present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 7 OF 41 USPATFULL
ACCESSION NUMBER: 2003:79303 USPATFULL
TITLE: 12 human secreted proteins
INVENTOR(S): Ni, Jian, Germantown, MD, UNITED STATES
Young, Paul E., Gaithersburg, MD, UNITED STATES
Kenny, Joseph J., Damascus, MD, UNITED STATES
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES
Moore, Paul A., Germantown, MD, UNITED STATES
Wei, Ying-Fei, Berkeley, CA, UNITED STATES
Greene, John M., Gaitherburg, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Liu, Ding, Gaithersburg, MD, UNITED STATES
Crocker, Paul R., Dundee, UNITED KINGDOM

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003055231	A1	20030320
APPLICATION INFO.:	US 2001-984130	A1	20011029 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 2001-836353, filed on 18 Apr 2001, PENDING Continuation-in-part of Ser. No. WO 1999-US25031, filed on 27 Oct 1999, UNKNOWN

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-243792P	20001030 (60)
	US 2000-198407P	20000419 (60)
	US 1998-105971P	19981028 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 23
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 67 Drawing Page(s)
LINE COUNT: 31982
AB The present invention relates to 12 novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human secreted proteins.

L9 ANSWER 8 OF 41 USPATFULL
ACCESSION NUMBER: 2003:78525 USPATFULL
TITLE: Polynucleotide encoding a novel human serpin secreted from lymphoid cells, LSI-01
INVENTOR(S): Chen, Jian, Princeton, NJ, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Nelson, Thomas, Lawrenceville, NJ, UNITED STATES
Seiler, Steven, Pennington, NJ, UNITED STATES
Bassolino, Donna A., Hamilton, NJ, UNITED STATES
Cheney, Daniel L., Flemington, NJ, UNITED STATES
Duclos, Franck, Washington Crossing, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003054445	A1	20030320
APPLICATION INFO.:	US 2001-993180	A1	20011114 (9)

	NUMBER	DATE

PRIORITY INFORMATION:	US 2000-248434P	20001114 (60)
	US 2000-257610P	20001221 (60)
	US 2001-282745P	20010410 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000
NUMBER OF CLAIMS: 52
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 8 Drawing Page(s)
LINE COUNT: 14427
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding LSI-01 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel LSI-01 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 41 USPATFULL
ACCESSION NUMBER: 2003:78500 USPATFULL
TITLE: Nucleic acids, proteins, and antibodies
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003054420	A1	20030320
APPLICATION INFO.:	US 2002-72349	A1	20020211 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-764855, filed on 17 Jan 2001, ABANDONED

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-179065P	20000131 (60)
	US 2000-180628P	20000204 (60)
	US 2000-214886P	20000628 (60)
	US 2000-217487P	20000711 (60)
	US 2000-225758P	20000814 (60)
	US 2000-220963P	20000726 (60)
	US 2000-217496P	20000711 (60)
	US 2000-225447P	20000814 (60)
	US 2000-218290P	20000714 (60)
	US 2000-225757P	20000814 (60)
	US 2000-226868P	20000822 (60)
	US 2000-216647P	20000707 (60)
	US 2000-225267P	20000814 (60)
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	US 2000-225270P	20000814 (60)
	US 2000-251869P	20001208 (60)
	US 2000-235834P	20000927 (60)
	US 2000-234274P	20000921 (60)
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US 2000-224519P 20000814 (60)
US 2000-220964P 20000726 (60)
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US 2000-249299P 20001117 (60)
US 2000-236327P 20000929 (60)
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US 2000-244617P 20001101 (60)
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US 2000-251856P 20001208 (60)
US 2000-251868P 20001208 (60)
US 2000-229344P 20000901 (60)
US 2000-234997P 20000925 (60)
US 2000-229343P 20000901 (60)
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US 2000-229513P 20000905 (60)
US 2000-231413P 20000908 (60)
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US 2000-237038P 20001002 (60)
US 2000-236370P 20000929 (60)
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US 2000-232401P 20000914 (60)

US 2000-241808P	20001020	(60)
US 2000-241826P	20001020	(60)
US 2000-241786P	20001020	(60)
US 2000-241221P	20001020	(60)
US 2000-246475P	20001108	(60)
US 2000-231243P	20000908	(60)
US 2000-233065P	20000914	(60)
US 2000-232398P	20000914	(60)
US 2000-234998P	20000925	(60)
US 2000-246477P	20001108	(60)
US 2000-246528P	20001108	(60)
US 2000-246525P	20001108	(60)
US 2000-246476P	20001108	(60)
US 2000-246526P	20001108	(60)
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US 2000-246613P	20001108	(60)
US 2000-249300P	20001117	(60)
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US 2000-246610P	20001108	(60)
US 2000-246611P	20001108	(60)
US 2000-230437P	20000906	(60)
US 2000-251990P	20001208	(60)
US 2000-251988P	20001205	(60)
US 2000-251030P	20001205	(60)
US 2000-251479P	20001206	(60)
US 2000-256719P	20001205	(60)
US 2000-250160P	20001201	(60)
US 2000-251989P	20001208	(60)
US 2000-250391P	20001201	(60)
US 2000-254097P	20001211	(60)
US 2000-231968P	20000912	(60)
US 2000-226279P	20000818	(60)
US 2000-186350P	20000302	(60)
US 2000-184664P	20000224	(60)
US 2000-189874P	20000316	(60)
US 2000-198123P	20000418	(60)
US 2000-227009P	20000823	(60)
US 2000-235484P	20000926	(60)
US 2000-190076P	20000317	(60)
US 2000-209467P	20000607	(60)
US 2000-205515P	20000519	(60)
US 2001-259678P	20010105	(60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 19700
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel colorectal cancer related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "colorectal cancer antigens," and the use of such colorectal cancer antigens for **detecting** disorders of the colon and/or rectum, particularly the presence of colorectal cancer and colorectal cancer metastases. More specifically, isolated colorectal cancer associated nucleic acid molecules are provided encoding novel colorectal cancer associated polypeptides. Novel colorectal cancer polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human colorectal cancer associated

polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the colon and/or rectum, including colorectal cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 10 OF 41 USPATFULL

ACCESSION NUMBER:	2003:71447 USPATFULL
TITLE:	Apoptosis related polynucleotides, polypeptides, and antibodies
INVENTOR(S):	Ni, Jian, Germantown, MD, UNITED STATES Young, Paul E., Gaithersburg, MD, UNITED STATES Ruben, Steven M., Olney, MD, UNITED STATES
PATENT ASSIGNEE(S):	Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003049732	A1	20030313
APPLICATION INFO.:	US 2001-13477	A1	20011213 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2000-669445, filed on 25 Sep 2000, PENDING Continuation-in-part of Ser. No. WO 2000-US6642, filed on 15 Mar 2000, UNKNOWN

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-126018P	19990324 (60)
	US 1999-139638P	19990617 (60)
	US 1999-149449P	19990818 (60)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS:	22
EXEMPLARY CLAIM:	1
LINE COUNT:	12594

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel human apoptosis related polypeptides and isolated nucleic acids containing the coding regions of the genes encoding such polypeptides. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human apoptosis related polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human apoptosis related polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 11 OF 41 USPATFULL

ACCESSION NUMBER:	2003:64662 USPATFULL
TITLE:	Human genes and gene expression products
INVENTOR(S):	Williams, Lewis T., Mill Valley, CA, UNITED STATES Escobedo, Jaime, Alamo, CA, UNITED STATES Innis, Michael A., UNITED STATES Garcia, Pablo Dominguez, San Francisco, CA, UNITED STATES Sudduth-Klinger, Julie, Kensington, CA, UNITED STATES Reinhard, Christoph, Alameda, CA, UNITED STATES Randazzo, Filippo, Oakland, CA, UNITED STATES Kennedy, Giulia C., San Francisco, CA, UNITED STATES Pot, David, Arlington, VA, UNITED STATES

Kassam, Altaf, Oakland, CA, UNITED STATES
Lamson, George, Moraga, CA, UNITED STATES
Drmanac, Radjoe, Palo Alto, CA, UNITED STATES
Dickson, Mark, Hollister, CA, UNITED STATES
Labat, Ivan, Mountain View, CA, UNITED STATES
Jones, Lee William, Sunnyvale, CA, UNITED STATES
Stache-Crain, Birgit, Sunnyvale, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003044783	A1	20030306
APPLICATION INFO.:	US 2001-803719	A1	20010309 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-188609P	20000309 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Chiron Corporation Intellectual Property -R440, PO Box 8097, Emeryville, CA, 94662-8097
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
LINE COUNT: 23459
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention relates to novel human polynucleotides and variants thereof, their encoded polypeptides and variants thereof, to genes corresponding to these polynucleotides and to proteins expressed by the genes. The invention also relates to diagnostic and therapeutic agents employing such novel human polynucleotides, their corresponding genes or gene products, e.g., these genes and proteins, including probes, antisense constructs, and antibodies.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 12 OF 41 USPATFULL
ACCESSION NUMBER: 2003:30249 USPATFULL
TITLE: Methods and compositions for screening for altered cellular phenotypes
INVENTOR(S): Lorens, James, Portola Valley, CA, UNITED STATES
Kinsella, Todd M., Fayetteville, CA, UNITED STATES
Masuda, Esteban, Menlo Park, CA, UNITED STATES
Hitoshi, Yasumichi, Mountain view, CA, UNITED STATES
Liao, X. Charlene, Palo Alto, CA, UNITED STATES
Pearsall, Denise, Belmont, CA, UNITED STATES
Friera, Annabelle, South San Francisco, CA, UNITED STATES
Chu, Peter, San Francisco, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003022196	A1	20030130
APPLICATION INFO.:	US 2002-96339	A1	20020308 (10)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-76624, filed on 12 May 1998, PENDING
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: DORSEY & WHITNEY LLP, Suite 3400, Four Embarcadero Center, San Francisco, CA, 94111-4187
NUMBER OF CLAIMS: 56
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 50 Drawing Page(s)
LINE COUNT: 5034
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to methods and compositions useful for screening for altered cellular phenotypes using an inducible expression system to enrich for and **detect** the altered phenotypes and, more

particularly, relates to screening libraries of candidate bioactive agents, for example, nucleic acids and peptides, in cells using an regulatable expression system to enrich for a subpopulation of cells having an altered phenotype due to the presence of a candidate bioactive agent.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 13 OF 41 USPATFULL

ACCESSION NUMBER:	2003:30210 USPATFULL
TITLE:	Methods of producing a library and methods of selecting polynucleotides of interest
INVENTOR(S):	Zauderer, Maurice, Pittsford, NY, UNITED STATES Smith, Ernest S., Ontario, NY, UNITED STATES
PATENT ASSIGNEE(S):	University of Rochester (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003022157	A1	20030130	
APPLICATION INFO.:	US 2001-818991	A1	20010328	(9)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2000-192586P	20000328	(60)
	US 2000-203343P	20000510	(60)
	US 2001-263226P	20010123	(60)
	US 2001-271426P	20010227	(60)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934
NUMBER OF CLAIMS:	137
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	31 Drawing Page(s)
LINE COUNT:	10535

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a high efficiency method of introducing DNA into linear DNA viruses such as poxvirus, a method of producing libraries in linear DNA viruses such as poxvirus, and methods of selecting polynucleotides of interest based on cell nonviability or other phenotypes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 14 OF 41 USPATFULL

ACCESSION NUMBER:	2002:337317 USPATFULL
TITLE:	Methods of identifying regulator molecules
INVENTOR(S):	Zauderer, Maurice, Pittsford, NY, UNITED STATES Smith, Ernest S., Ontario, NY, UNITED STATES
PATENT ASSIGNEE(S):	The University of Rochester, Rochester, NY (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002192675	A1	20021219	
APPLICATION INFO.:	US 2002-61395	A1	20020204	(10)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2001-265589P	20010202	(60)
	US 2001-265880P	20010205	(60)
	US 2001-271423P	20010227	(60)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934

NUMBER OF CLAIMS: 97
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 6369
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides methods and compositions for identifying, i.e., selecting and/or screening for regulator molecules such as polypeptides and/or U1 SnRNAs which irectly or indirectly influence, e.g., induce or suppress, the transcriptional activation of a target transcriptional regulatory region in a eukaryotic host cell. Also provided are regulator molecules identified by such methods, and methods of isolating polynucleotides encoding regulator molecules identified by these methods.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 15 OF 41 USPATFULL
ACCESSION NUMBER: 2002:322538 USPATFULL
TITLE: ADAM polynucleotides, polypeptides, and antibodies
INVENTOR(S): Ruben, Steven M., Olney, MD, UNITED STATES
Ni, Jian, Germantown, MD, UNITED STATES
Hastings, Gregg A., Westlake Village, CA, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
Wei, Ping, Brookeville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002182702	A1	20021205
APPLICATION INFO.:	US 2001-955504	A1	20010919 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2000-US14308, filed on 25 May 2000, UNKNOWN Continuation-in-part of Ser. No. US 2000-712907, filed on 16 Nov 2000, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-234222P	20000921 (60)
	US 1999-136388P	19990527 (60)
	US	
	US	
	US 1999-136388P	19990527 (60)
	US 1999-142930P	19990709 (60)
	US 2000-178717P	20000128 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 13921
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to novel human ADAM polypeptides and isolated nucleic acids containing the coding regions of the genes encoding such polypeptides. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human ADAM polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human ADAM polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 16 OF 41 USPATFULL
ACCESSION NUMBER: 2002:308509 USPATFULL
TITLE: ADAM polynucleotides, polypeptides, and antibodies
INVENTOR(S): Ruben, Steven M., Olney, MD, UNITED STATES
Ni, Jian, Germantown, MD, UNITED STATES

Hastings, Gregg A., Westlake Village, CA, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
Wei, Ping, Brookeville, MD, UNITED STATES
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002173640	A1	20021121
APPLICATION INFO.:	US 2002-125452	A1	20020419 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2001-955504, filed on 19 Sep 2001, PENDING Continuation of Ser. No. US 2000-712907, filed on 16 Nov 2000, PENDING Continuation of Ser. No. WO 2000-US14308, filed on 25 May 2000, UNKNOWN

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-234222P	20000921 (60)
	US 1999-136388P	19990527 (60)
	US 1999-142930P	19990709 (60)
	US 2000-178717P	20000128 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 13925
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel human ADAM polypeptides and isolated nucleic acids containing the coding regions of the genes encoding such polypeptides. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human ADAM polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human ADAM polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 17 OF 41 USPATFULL
ACCESSION NUMBER: 2002:295327 USPATFULL
TITLE: ADAM polynucleotides, polypeptides, and antibodies
INVENTOR(S): Ruben, Steven M., Olney, MD, UNITED STATES
Wei, Ping, Brookeville, MD, UNITED STATES
Ni, Jian, Germantown, MD, UNITED STATES
Hastings, Gregg A., Westlake Village, CA, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002165377	A1	20021107
APPLICATION INFO.:	US 2002-125470	A1	20020419 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2000-712907, filed on 16 Nov 2000, PENDING Continuation-in-part of Ser. No. WO 2000-US14308, filed on 25 May 2000, UNKNOWN

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-136388P	19990527 (60)
	US 1999-142930P	19990709 (60)
	US 2000-178717P	20000128 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
LINE COUNT: 10736
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to novel human ADAM polypeptides and isolated nucleic acids containing the coding regions of the genes encoding such polypeptides. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human ADAM polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human ADAM polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 18 OF 41 USPATFULL
ACCESSION NUMBER: 2002:295092 USPATFULL
TITLE: Nucleic acids, proteins, and antibodies
INVENTOR(S): Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
Birse, Charles E., North Potomac, MD, UNITED STATES
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002165137	A1	20021107
APPLICATION INFO.:	US 2001-860670	A1	20010521 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2001-US1346, filed on 17 Jan 2001, UNKNOWN Continuation-in-part of Ser. No. US 2001-764859, filed on 17 Jan 2001, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-205515P	20000519 (60)
	US 2000-179065P	20000131 (60)
	US 2000-180628P	20000204 (60)
	US 2000-225447P	20000814 (60)
	US 2000-218290P	20000714 (60)
	US 2000-216880P	20000707 (60)
	US 2000-234997P	20000925 (60)
	US 2000-229343P	20000901 (60)
	US 2000-236367P	20000929 (60)
	US 2000-239937P	20001013 (60)
	US 2000-249210P	20001117 (60)
	US 2000-249211P	20001117 (60)
	US 2000-249214P	20001117 (60)
	US 2000-231243P	20000908 (60)
	US 2000-246477P	20001108 (60)
	US 2000-246528P	20001108 (60)
	US 2000-246525P	20001108 (60)
	US 2000-246476P	20001108 (60)
	US 2000-246526P	20001108 (60)
	US 2000-249265P	20001117 (60)
	US 2000-230437P	20000906 (60)
	US 2000-251990P	20001208 (60)
	US 2000-251988P	20001205 (60)
	US 2000-251030P	20001205 (60)
	US 2000-251479P	20001206 (60)
	US 2000-256719P	20001205 (60)
	US 2000-250160P	20001201 (60)
	US 2000-251989P	20001208 (60)
	US 2000-250391P	20001201 (60)

US 2000-254097P 20001211 (60)
US 2000-179065P 20000131 (60)
US 2000-180628P 20000204 (60)
US 2000-214886P 20000628 (60)
US 2000-217487P 20000711 (60)
US 2000-225758P 20000814 (60)
US 2000-220963P 20000726 (60)
US 2000-217496P 20000711 (60)
US 2000-225447P 20000814 (60)
US 2000-218290P 20000714 (60)
US 2000-225757P 20000814 (60)
US 2000-226868P 20000822 (60)
US 2000-216647P 20000707 (60)
US 2000-225267P 20000814 (60)
US 2000-216880P 20000707 (60)
US 2000-225270P 20000814 (60)
US 2000-251869P 20001208 (60)
US 2000-235834P 20000927 (60)
US 2000-234274P 20000921 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 20253
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 19 OF 41 USPATFULL
ACCESSION NUMBER: 2002:280814 USPATFULL
TITLE: 22012, a novel human carboxypeptidase
INVENTOR(S): Kapeller-Libermann, Rosana, Chestnut Hill, MA, UNITED STATES
MacBeth, Kyle J., Boston, MA, UNITED STATES
Williamson, Mark, Saugus, MA, UNITED STATES
PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002156264	A1	20021024
APPLICATION INFO.:	US 2002-68134	A1	20020206 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1999-345469, filed on 30 Jun 1999, GRANTED, Pat. No. US 6369210
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ALSTON & BIRD LLP, BANK OF AMERICA PLAZA, 101 SOUTH TRYON STREET, SUITE 4000, CHARLOTTE, NC, 28280-4000
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Page(s)
LINE COUNT: 3398

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a newly identified human carboxypeptidase. The invention also relates to polynucleotides encoding the carboxypeptidase. The invention further relates to methods using the carboxypeptidase polypeptides and polynucleotides as a target for diagnosis and treatment in carboxypeptidase-related disorders. The invention further relates to drug-screening methods using the carboxypeptidase polypeptides and polynucleotides to identify agonists and antagonists for diagnosis and treatment. The invention further encompasses agonists and antagonists based on the carboxypeptidase polypeptides and polynucleotides. The invention further relates to procedures for producing the carboxypeptidase polypeptides and polynucleotides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 20 OF 41 USPATFULL

ACCESSION NUMBER: 2002:266261 USPATFULL

TITLE: Nucleic acids, proteins, and antibodies

INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002147140	A1	20021010
APPLICATION INFO.:	US 2001-764877	A1	20010117 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-179065P	20000131 (60)
	US 2000-180628P	20000204 (60)
	US 2000-214886P	20000628 (60)
	US 2000-217487P	20000711 (60)
	US 2000-225758P	20000814 (60)
	US 2000-220963P	20000726 (60)
	US 2000-217496P	20000711 (60)
	US 2000-225447P	20000814 (60)
	US 2000-218290P	20000714 (60)
	US 2000-225757P	20000814 (60)
	US 2000-226868P	20000822 (60)
	US 2000-216647P	20000707 (60)
	US 2000-225267P	20000814 (60)
	US 2000-216880P	20000707 (60)
	US 2000-225270P	20000814 (60)
	US 2000-251869P	20001208 (60)
	US 2000-235834P	20000927 (60)
	US 2000-234274P	20000921 (60)
	US 2000-234223P	20000921 (60)
	US 2000-228924P	20000830 (60)
	US 2000-224518P	20000814 (60)
	US 2000-236369P	20000929 (60)
	US 2000-224519P	20000814 (60)
	US 2000-220964P	20000726 (60)
	US 2000-241809P	20001020 (60)
	US 2000-249299P	20001117 (60)
	US 2000-236327P	20000929 (60)
	US 2000-241785P	20001020 (60)
	US 2000-244617P	20001101 (60)
	US 2000-225268P	20000814 (60)
	US 2000-236368P	20000929 (60)
	US 2000-251856P	20001208 (60)
	US 2000-251868P	20001208 (60)
	US 2000-229344P	20000901 (60)
	US 2000-234997P	20000925 (60)
	US 2000-229343P	20000901 (60)

	US 2000-229345P	20000901 (60)
	US 2000-229287P	20000901 (60)
	US 2000-229513P	20000905 (60)
	US 2000-231413P	20000908 (60)
	US 2000-229509P	20000905 (60)
	US 2000-236367P	20000929 (60)
	US 2000-237039P	20001002 (60)
	US 2000-237038P	20001002 (60)
	US 2000-236370P	20000929 (60)
	US 2000-236802P	20001002 (60)
	US 2000-237037P	20001002 (60)
	US 2000-237040P	20001002 (60)
	US 2000-240960P	20001020 (60)
	US 2000-239935P	20001013 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 33677
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel musculoskeletal system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "musculoskeletal system antigens," and the use of such musculoskeletal system antigens for **detecting** disorders of the musculoskeletal system, particularly the presence of cancer and cancer metastases. More specifically, isolated musculoskeletal system associated nucleic acid molecules are provided encoding novel musculoskeletal system associated polypeptides. Novel musculoskeletal system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human musculoskeletal system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the musculoskeletal system, including cancer of musculoskeletal tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 21 OF 41 USPATFULL
ACCESSION NUMBER: 2002:265834 USPATFULL
TITLE: Methods for screening for transdominant intracellular effector peptides and RNA molecules
INVENTOR(S): Nolan, Garry P., San Francisco, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002146710	A1	20021010
APPLICATION INFO.:	US 2001-918601	A1	20010730 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2000-727715, filed on 28 Nov 2000, PENDING Continuation of Ser. No. US 1997-963368, filed on 13 Nov 1997, PENDING Division of Ser. No. US 1997-789333, filed on 23 Jan 1997, GRANTED, Pat. No. US 6153380 Division of Ser. No. US 1997-787738, filed on 23 Jan 1997, PENDING Division of Ser. No. US 1996-589109, filed on 23 Jan 1996, PENDING Division of Ser. No. US 1996-589911, filed on 23 Jan 1996, ABANDONED
DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP, Suite 3400, Four Embarcadero Center, San Francisco, CA, 94111-4187
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 3274
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods and compositions for screening for intracellular transdominant effector peptides and RNA molecules selected inside living cells from randomized pools are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 22 OF 41 USPATFULL
ACCESSION NUMBER: 2002:246534 USPATFULL
TITLE: Methods for screening for transdominant effector peptides and RNA molecules
INVENTOR(S): Nolan, Garry P., San Francisco, CA, United States
Rothenberg, S. Michael, Palo Alto, CA, United States
PATENT ASSIGNEE(S): Board of Trustees of the Leland Stanford Junior University, Palo Alto, CA, United States (U.S. corporation)
Rigel Pharmaceuticals, Inc., South San Francisco, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6455247	B1	20020924
APPLICATION INFO.:	US 1997-787738		19970123 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-589109, filed on 23 Jan 1996, now patented, Pat. No. US 6365344
Continuation-in-part of Ser. No. US 1996-589911, filed on 23 Jan 1996, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Brusca, John S.
LEGAL REPRESENTATIVE: Dorsey & Whitney LLP, Silva, Esq., Robin M., Shyjan, Esq., Anne M.
NUMBER OF CLAIMS: 13
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 3923
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods and compositons for screening for transdominant effector peptides and RNA molecules selected inside living cells from randomized pools are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 23 OF 41 USPATFULL
ACCESSION NUMBER: 2002:235375 USPATFULL
TITLE: Methods for screening for transdominant intracellular effector peptides and RNA molecules
INVENTOR(S): Nolan, Garry P., San Francisco, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002127564	A1	20020912
APPLICATION INFO.:	US 2001-916940	A1	20010727 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 2000-727715, filed on 28 Nov 2000, PENDING Continuation of Ser. No. US 1997-963368, filed on 13 Nov 1997, PENDING Division of Ser. No. US 1997-789333, filed on 23 Jan 1997, GRANTED, Pat. No. US 6153380 Division of Ser. No. US 1997-787738, filed on 23 Jan 1997, PENDING

Continuation-in-part of Ser. No. US 1996-589109, filed on 23 Jan 1996, PENDING Continuation-in-part of Ser. No. US 1996-589911, filed on 23 Jan 1996, ABANDONED
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP, Suite 3400, Four Embarcadero Center, San Francisco, CA, 94111-4187
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 3269
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods and compositions for screening for intracellular transdominant effector peptides and RNA molecules selected inside living cells from randomized pools are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 24 OF 41 USPATFULL
ACCESSION NUMBER: 2002:221777 USPATFULL
TITLE: Nucleic acids, proteins, and antibodies
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002119919	A1	20020829
APPLICATION INFO.:	US 2001-764855	A1	20010117 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-179065P	20000131 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 19514
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to novel colorectal cancer related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "colorectal cancer antigens," and the use of such colorectal cancer antigens for **detecting** disorders of the colon and/or rectum, particularly the presence of colorectal cancer and colorectal cancer metastases. More specifically, isolated colorectal cancer associated nucleic acid molecules are provided encoding novel colorectal cancer associated polypeptides. Novel colorectal cancer polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human colorectal cancer associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the colon and/or rectum, including colorectal cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 25 OF 41 USPATFULL
ACCESSION NUMBER: 2002:191539 USPATFULL

TITLE: Full-length human cDNAs encoding potentially secreted proteins
INVENTOR(S): Milne Edwards, Jean-Baptiste Dumas, Paris, FRANCE
Bougueleret, Lydie, Petit Lancy, SWITZERLAND
Jobert, Severin, Paris, FRANCE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002102604	A1	20020801
APPLICATION INFO.:	US 2000-731872	A1	20001207 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-169629P	19991208 (60)
	US 2000-187470P	20000306 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: John Lucas, Ph.D., J.D., Genset Corporation, 10665 Srrento Valley Road, San Diego, CA, 92121-1609
NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 28061
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention concerns GENSET polynucleotides and polypeptides. Such GENSET products may be used as reagents in forensic analyses, as chromosome markers, as tissue/cell/organelle-specific markers, in the production of expression vectors. In addition, they may be used in screening and diagnosis assays for abnormal GENSET expression and/or biological activity and for screening compounds that may be used in the treatment of GENSET-related disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 26 OF 41 USPATFULL
ACCESSION NUMBER: 2002:171923 USPATFULL
TITLE: Nucleic acids, proteins, and antibodies
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002090672	A1	20020711
APPLICATION INFO.:	US 2001-764853	A1	20010117 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-179065P	20000131 (60)
	US 2000-180628P	20000204 (60)
	US 2000-214886P	20000628 (60)
	US 2000-217487P	20000711 (60)
	US 2000-225758P	20000814 (60)
	US 2000-220963P	20000726 (60)
	US 2000-217496P	20000711 (60)
	US 2000-225447P	20000814 (60)
	US 2000-218290P	20000714 (60)
	US 2000-225757P	20000814 (60)
	US 2000-226868P	20000822 (60)
	US 2000-216647P	20000707 (60)
	US 2000-225267P	20000814 (60)
	US 2000-216880P	20000707 (60)
	US 2000-225270P	20000814 (60)
	US 2000-251869P	20001208 (60)
	US 2000-235834P	20000927 (60)
	US 2000-234274P	20000921 (60)

	US 2000-234223P	20000921 (60)
	US 2000-228924P	20000830 (60)
	US 2000-224518P	20000814 (60)
	US 2000-236369P	20000929 (60)
	US 2000-224519P	20000814 (60)
	US 2000-220964P	20000726 (60)
	US 2000-241809P	20001020 (60)
	US 2000-249299P	20001117 (60)
	US 2000-236327P	20000929 (60)
	US 2000-241785P	20001020 (60)
	US 2000-244617P	20001101 (60)
	US 2000-225268P	20000814 (60)
	US 2000-236368P	20000929 (60)
	US 2000-251856P	20001208 (60)
	US 2000-251868P	20001208 (60)
	US 2000-229344P	20000901 (60)
	US 2000-234997P	20000925 (60)
	US 2000-229343P	20000901 (60)
	US 2000-229345P	20000901 (60)
	US 2000-229287P	20000901 (60)
	US 2000-229513P	20000905 (60)
	US 2000-231413P	20000908 (60)
	US 2000-229509P	20000905 (60)
	US 2000-236367P	20000929 (60)
	US 2000-237039P	20001002 (60)
	US 2000-237038P	20001002 (60)
	US 2000-236370P	20000929 (60)
	US 2000-236802P	20001002 (60)
	US 2000-237037P	20001002 (60)
	US 2000-237040P	20001002 (60)
	US 2000-240960P	20001020 (60)
	US 2000-239935P	20001013 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 35378
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 27 OF 41 USPATFULL
ACCESSION NUMBER: 2002:165182 USPATFULL
TITLE: Nucleic acids, proteins, and antibodies
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
Barash, Steven C., Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002086811	A1	20020704

APPLICATION INFO.: US 2001-764861 A1 20010117 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-179065P	20000131 (60)
	US 2000-180628P	20000204 (60)
	US 2000-214886P	20000628 (60)
	US 2000-217487P	20000711 (60)
	US 2000-225758P	20000814 (60)
	US 2000-220963P	20000726 (60)
	US 2000-217496P	20000711 (60)
	US 2000-225447P	20000814 (60)
	US 2000-218290P	20000714 (60)
	US 2000-225757P	20000814 (60)
	US 2000-226868P	20000822 (60)
	US 2000-216647P	20000707 (60)
	US 2000-225267P	20000814 (60)
	US 2000-216880P	20000707 (60)
	US 2000-225270P	20000814 (60)
	US 2000-251869P	20001208 (60)
	US 2000-235834P	20000927 (60)
	US 2000-234274P	20000921 (60)
	US 2000-234223P	20000921 (60)
	US 2000-228924P	20000830 (60)
	US 2000-224518P	20000814 (60)
	US 2000-236369P	20000929 (60)
	US 2000-224519P	20000814 (60)
	US 2000-220964P	20000726 (60)
	US 2000-241809P	20001020 (60)
	US 2000-249299P	20001117 (60)
	US 2000-236327P	20000929 (60)
	US 2000-241785P	20001020 (60)
	US 2000-244617P	20001101 (60)
	US 2000-225268P	20000814 (60)
	US 2000-236368P	20000929 (60)
	US 2000-251856P	20001208 (60)
	US 2000-251868P	20001208 (60)
	US 2000-229344P	20000901 (60)
	US 2000-234997P	20000925 (60)
	US 2000-229343P	20000901 (60)
	US 2000-229345P	20000901 (60)
	US 2000-229287P	20000901 (60)
	US 2000-229513P	20000905 (60)
	US 2000-231413P	20000908 (60)
	US 2000-229509P	20000905 (60)
	US 2000-236367P	20000929 (60)
	US 2000-237039P	20001002 (60)
	US 2000-237038P	20001002 (60)
	US 2000-236370P	20000929 (60)
	US 2000-236802P	20001002 (60)
	US 2000-237037P	20001002 (60)
	US 2000-237040P	20001002 (60)
	US 2000-240960P	20001020 (60)
	US 2000-239935P	20001013 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 22023
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel proteins. More specifically, isolated nucleic acid molecules are provided encoding novel polypeptides. Novel polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and

recombinant and synthetic methods for producing human polynucleotides and/or polypeptides, and antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 28 OF 41 USPATFULL
ACCESSION NUMBER: 2002:149306 USPATFULL
TITLE: ADAM polynucleotides, polypeptides, and antibodies
INVENTOR(S): Shi, Yanggu, Gaithersburg, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002077465	A1	20020620
APPLICATION INFO.:	US 2001-945676	A1	20010905 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 2001-US5497, filed on 22 Feb 2001, UNKNOWN

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-187937P	20000303 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
LINE COUNT: 12287
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to novel human ADAM polypeptides and isolated nucleic acids containing the coding regions of the genes encoding such polypeptides. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human ADAM polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human ADAM polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 29 OF 41 USPATFULL
ACCESSION NUMBER: 2002:126286 USPATFULL
TITLE: COMBINATORIAL ENZYMATIC COMPLEXES
INVENTOR(S): NOLAN, GARRY P., MENLO PARK, CA, UNITED STATES
PAYAN, DONALD, HILLSBOROUGH, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002064798	A1	20020530
APPLICATION INFO.:	US 1997-873601	A1	19970612 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: FLEHR HOHBACH TEST ALBRITTON & HERBERT, FOUR EMBARCADERO CENTER, SUITE 3400, SAN FRANCISCO, CA, 941114187
NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Page(s)
LINE COUNT: 2248
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the formation of novel in vivo combinatorial enzyme complexes for use in screening candidate drug agents for bioactivity. PATENT

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 30 OF 41 USPATFULL

ACCESSION NUMBER:	2002:122764 USPATFULL
TITLE:	Nucleic acid molecules encoding human **protease** homologs
INVENTOR(S):	Robison, Keith E., Wilmington, MA, United States
PATENT ASSIGNEE(S):	Millennium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6395889	B1	20020528
APPLICATION INFO.:	US 1999-392184		19990909 (9)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	GRANTED
PRIMARY EXAMINER:	Achutamurthy, Ponnathapu
ASSISTANT EXAMINER:	Moore, William W.
LEGAL REPRESENTATIVE:	Alston & Bird LLP
NUMBER OF CLAIMS:	1
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT:	5266

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to polynucleotides encoding newly identified **protease** homologs. The invention also relates to the **proteases**. The invention further relates to methods using the **protease** polypeptides and polynucleotides as a target for diagnosis and treatment in **protease**-mediated disorders. The invention further relates to drug-screening methods using the **protease** polypeptides and polynucleotides to identify agonists and antagonists for diagnosis and treatment. The invention further encompasses agonists and antagonists based on the **protease** polypeptides and polynucleotides. The invention further relates to procedures for producing the **protease** polypeptides and polynucleotides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 31 OF 41 USPATFULL

ACCESSION NUMBER:	2002:119538 USPATFULL
TITLE:	Nucleic acids, proteins, and antibodies
INVENTOR(S):	Rosen, Craig A., Laytonsville, MD, UNITED STATES Ruben, Steven M., Olney, MD, UNITED STATES Barash, Steven C., Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002061521	A1	20020523
APPLICATION INFO.:	US 2001-764869	A1	20010117 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-179065P	20000131 (60)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS:	24
EXEMPLARY CLAIM:	1
LINE COUNT:	27967

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel cardiovascular system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "cardiovascular system antigens," and the use of such cardiovascular system antigens for **detecting** disorders of the cardiovascular system, particularly the presence of cancer of cardiovascular system tissues and cancer metastases. More specifically, isolated cardiovascular system associated nucleic acid molecules are provided encoding novel cardiovascular system associated polypeptides. Novel cardiovascular system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human cardiovascular system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the cardiovascular system, including cancer of cardiovascular system tissues, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 32 OF 41 USPATFULL
ACCESSION NUMBER: 2002:75569 USPATFULL
TITLE: 22012, human carboxypeptidase
INVENTOR(S): Kapeller-Libermann, Rosana, Chestnut Hill, MA, United States
MacBeth, Kyle J., Boston, MA, United States
Williamson, Mark, Saugus, MA, United States
PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6369210	B1	20020409
APPLICATION INFO.:	US 1999-345469		19990630 (9)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Caputa, Anthony C.
ASSISTANT EXAMINER: Harris, Alana M.
LEGAL REPRESENTATIVE: Alston & Bird LLP
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 8 Drawing Figure(s); 10 Drawing Page(s)
LINE COUNT: 3275
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to a newly identified human carboxypeptidase. The invention also relates to polynucleotides encoding the carboxypeptidase. The invention further relates to methods using the carboxypeptidase polypeptides and polynucleotides as a target for diagnosis and treatment in carboxypeptidase-related disorders. The invention further relates to drug-screening methods using the carboxypeptidase polypeptides and polynucleotides to identify agonists and antagonists for diagnosis and treatment. The invention further encompasses agonists and antagonists based on the carboxypeptidase polypeptides and polynucleotides. The invention further relates to procedures for producing the carboxypeptidase polypeptides and polynucleotides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 33 OF 41 USPATFULL
ACCESSION NUMBER: 2002:55159 USPATFULL
TITLE: STREPTOCOCCUS PNEUMONIAE POLYNUCLEOTIDES AND SEQUENCES

INVENTOR(S): KUNSCH, CHARLES A., GAITHERSBURG, MD, UNITED STATES
CHOI, GIL H., ROCKVILLE, MD, UNITED STATES
DILLON, PATRICK J., CARLSBAD, CA, UNITED STATES
ROSEN, CRAIG A., LAYTONSVILLE, MD, UNITED STATES
BARASH, STEVEN C., ROCKVILLE, MD, UNITED STATES
FANNON, MICHAEL R., SILVER SPRING, MD, UNITED STATES
DOUGHERTY, BRIAN A., MT. AIRY, MD, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002032323	A1	20020314	
	US 6420135	B2	20020716	
APPLICATION INFO.:	US 1997-961527	A1	19971030	(8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-29960P	19961031 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 7752
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides polynucleotide sequences of the genome of Streptococcus pneumoniae, polypeptide sequences encoded by the polynucleotide sequences, corresponding polynucleotides and polypeptides, vectors and hosts comprising the polynucleotides, and assays and other uses thereof. The present invention further provides polynucleotide and polypeptide sequence information stored on computer readable media, and computer-based systems and methods which facilitate its use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 34 OF 41 USPATFULL
ACCESSION NUMBER: 2001:231174 USPATFULL
TITLE: **Protease** homologs
INVENTOR(S): Robison, Keith E., Wilmington, MA, United States
PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6331427	B1	20011218	
APPLICATION INFO.:	US 1999-280116		19990326	(9)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Murthy, Ponnathapu Achuta
ASSISTANT EXAMINER: Moore, William W.
LEGAL REPRESENTATIVE: Alston & Bird LLP
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
LINE COUNT: 3346
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to polynucleotides encoding newly identified **protease** homologs belonging to the superfamily of G-protein-coupled **proteases**. The invention also relates to the **proteases**. The invention further relates to methods using the **protease** polypeptides and polynucleotides as a target for diagnosis and treatment in **protease**-mediated disorders. The invention further relates to drug-screening methods using the **protease** polypeptides and polynucleotides to identify agonists and antagonists for diagnosis and treatment. The invention further

encompasses agonists and antagonists based on the **protease** polypeptides and polynucleotides. The invention further relates to procedures for producing the **protease** polypeptides and polynucleotides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 35 OF 41 USPATFULL

ACCESSION NUMBER:	2001:194124 USPATFULL
TITLE:	Combinatorial enzymatic complexes
INVENTOR(S):	Nolan, Garry P., Menlo Park, CA, United States Payan, Donald, Hillsborough, CA, United States
PATENT ASSIGNEE(S):	Rigel Pharmaceuticals, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001036638	A1	20011101
APPLICATION INFO.:	US 2001-789652	A1	20010220 (9)

RELATED APPLN. INFO.:	Division of Ser. No. US 1997-873601, filed on 12 Jun 1997, PENDING
DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	FLEHR HOHBACH TEST, ALBRITTON & HERBERT LLP, Suite 3400, Four Embarcadero Center, San Francisco, CA, 94111-4187
NUMBER OF CLAIMS:	26
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	5 Drawing Page(s)
LINE COUNT:	2249

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the formation of novel in vivo combinatorial enzyme complexes for use in screening candidate drug agents for bioactivity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 36 OF 41 USPATFULL

ACCESSION NUMBER:	2001:152503 USPATFULL
TITLE:	Methods for laundry using polycations and enzymes
INVENTOR(S):	Johansen, Charlotte, Holte, Denmark
PATENT ASSIGNEE(S):	Novozymes A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6287585	B1	20010911
APPLICATION INFO.:	US 1998-143622		19980828 (9)

RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1997-DK98, filed on 5 Mar 1997

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1996-262	19960306

DOCUMENT TYPE:	Utility
FILE SEGMENT:	GRANTED
PRIMARY EXAMINER:	Page, Thurman K.
ASSISTANT EXAMINER:	Seidleck, Brian K.
LEGAL REPRESENTATIVE:	Lambiris, Elias J., Garbell, John I.
NUMBER OF CLAIMS:	8
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT:	1892

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a method of killing or inhibiting the growth of microbial cells present on laundry, comprising contacting the cells with a composition comprising a poly-cationic compound, preferably

a polyamino acid, a polyvinylamine, a copolymer prepared from vinylamine and one or more carboxylic acid anhydrides, e.g. a polymer comprising 0.1-100 mol % vinyl amine or ethyleneimine units, 0-99.9 mol % units of at least one monomer selected from N-vinylcarboxamides of the formula I ##STR1##

wherein R.sup.1 and R.sup.2 are hydrogen or C.sub.1 -C.sub.6 -alkyl;

vinyl formate, vinyl acetate, vinyl propionate, vinyl alcohol, C.sub.1 -C.sub.6 -alkyl vinyl ether, mono ethylenic unsaturated C.sub.3 -C.sub.8 -carboxylic acid, and esters, nitrites, amides and anhydrides thereof, N-vinylurea, N-imidazoles and N-vinyl imidazolines; and

0-5 mol % units of monomers having at least two unsaturated ethylenic double bonds;

and one or more enzymes, preferably glycanases, muranases, oxidoreductases, glucanases, **proteases**, amylases, lipases, pectinases and xylanases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 37 OF 41 USPATFULL

ACCESSION NUMBER:	2001:91501 USPATFULL
TITLE:	Green **fluorescent** protein fusions with random peptides
INVENTOR(S):	Anderson, David, San Bruno, CA, United States Bogenberger, Jakob Maria, Menlo Park, CA, United States
PATENT ASSIGNEE(S):	Rigel Pharmaceuticals, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001003650	A1	20010614
APPLICATION INFO.:	US 2000-749959	A1	20001227 (9)

RELATED APPLN. INFO.:	Continuation of Ser. No. US 1998-169015, filed on 8 Oct 1998, GRANTED, Pat. No. US 6180343
DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	Robin M. Silva, FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP, Suite 3400, Four Embarcadero Center, San Francisco, CA, 94111-4187
NUMBER OF CLAIMS:	25
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	3 Drawing Page(s)
LINE COUNT:	2537

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to the use of **fluorescent** proteins, particularly green **fluorescent** protein (GFP), in fusion constructs with random and defined peptides and peptide libraries, to increase the cellular expression levels, decrease the cellular catabolism, increase the conformational stability relative to linear peptides, and to increase the steady state concentrations of the random peptides and random peptide library members expressed in cells for the purpose of **detecting** the presence of the peptides and screening random peptide libraries. N-terminal, C-terminal, dual N- and C-terminal and one or more internal fusions are all contemplated. Novel fusions utilizing self-binding peptides to create a conformationally stabilized fusion domain are also contemplated.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 38 OF 41 USPATFULL

ACCESSION NUMBER:	2001:14201 USPATFULL
TITLE:	Green **fluorescent** protein fusions with random peptides
INVENTOR(S):	Anderson, David, San Bruno, CA, United States

Bogenberger, Jakob Maria, Menlo Park, CA, United States
PATENT ASSIGNEE(S): Rigel Pharmaceuticals, Inc., S. San Francisco, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6180343	B1	20010130
APPLICATION INFO.:	US 1998-169015		19981008 (9)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Brusca, John S.
LEGAL REPRESENTATIVE: Flehr Hohbach Test Albritton & Herbert LLP
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 2522
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to the use of **fluorescent** proteins, particularly green **fluorescent** protein (GFP), in fusion constructs with random and defined peptides and peptide libraries, to increase the cellular expression levels, decrease the cellular catabolism, increase the conformational stability relative to linear peptides, and to increase the steady state concentrations of the random peptides and random peptide library members expressed in cells for the purpose of **detecting** the presence of the peptides and screening random peptide libraries. N-terminal, C-terminal, dual N- and C-terminal and one or more internal fusions are all contemplated. Novel fusions utilizing self-binding peptides to create a conformationally stabilized fusion domain are also contemplated.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 39 OF 41 USPATFULL
ACCESSION NUMBER: 2000:160777 USPATFULL
TITLE: Methods for screening for transdominant intracellular effector peptides and RNA molecules
INVENTOR(S): Nolan, Garry P., Palo Alto, CA, United States
Rothenberg, S. Michael, Palo Alto, CA, United States
PATENT ASSIGNEE(S): Rigel Pharmaceuticals, Inc., Sunnyvale, CA, United States (U.S. corporation)
The Board of Trustees for the Leland Stanford Junior University, Palo Alto, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6153380		20001128
APPLICATION INFO.:	US 1997-789333		19970123 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1996-589108, filed on 23 Jan 1996, now abandoned And a continuation of Ser. No. US 1996-589911, filed on 23 Jan 1996, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Chan, Christina Y.
ASSISTANT EXAMINER: VanderVegt, F. Pierre
LEGAL REPRESENTATIVE: Flehr Hohbach Test Albritton & Herbert LLP, Silva, Robin M.
NUMBER OF CLAIMS: 27
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 4104
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Methods and compositions for screening for intracellular transdominant effector peptides and RNA molecules selected inside living cells from randomized pools are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 40 OF 41 USPATFULL

ACCESSION NUMBER: 2000:101876 USPATFULL
TITLE: Parasitic helminth PLA2 proteins
INVENTOR(S): Grieve, Robert B., Fort Collins, CO, United States
Frank, Glenn R., Wellington, CO, United States
Wisnewski, Nancy, Ft. Collins, CO, United States
PATENT ASSIGNEE(S): Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)
Colorado State University Research Foundation, Ft. Collins, CO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6099843		20000808
APPLICATION INFO.:	US 1995-483474		19950607 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-408120, filed on 20 Mar 1995, now patented, Pat. No. US 5804200 which is a continuation of Ser. No. US 1993-3257, filed on 12 Jan 1993, now abandoned which is a continuation-in-part of Ser. No. US 1991-654226, filed on 12 Feb 1991, now abandoned And a continuation-in-part of Ser. No. US 1994-225479, filed on 8 Apr 1994, now abandoned And a continuation-in-part of Ser. No. US 1993-101283, filed on 3 Aug 1993, now abandoned , said Ser. No. US 654226 And a continuation-in-part of Ser. No. WO 1994-US679, filed on 12 Jan 1994 , said Ser. No. US 3257 which is a continuation-in-part of Ser. No. US 1993-3389, filed on 12 Jan 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-109391, filed on 19 Aug 1993, now patented, Pat. No. US 5639876
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Minnifield, Nita
ASSISTANT EXAMINER: Masood, Khalid
LEGAL REPRESENTATIVE: Sheridan Ross P.C.
NUMBER OF CLAIMS: 13
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Figure(s); 13 Drawing Page(s)
LINE COUNT: 4190
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to parasitic helminth PLA2 proteins; to parasitic helminth PLA2 nucleic acid molecules, including those that encode such proteins; to antibodies raised against such proteins; and to compounds that inhibit parasitic helminth phospholipase A.sub.2 activity. The present invention also includes methods to obtain such proteins, nucleic acid molecules, antibodies, and inhibitors. Also included in the present invention are therapeutic compositions comprising such proteins, nucleic acid molecules, antibodies, and/or inhibitors as well as the use of such therapeutic compositions to protect animals from diseases caused by parasitic helminths.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 41 OF 41 USPATFULL

ACCESSION NUMBER: 2000:57576 USPATFULL
TITLE: Parasitic helminth PLA2 proteins and nucleic acid molecules
INVENTOR(S): Grieve, Robert B., Fort Collins, CO, United States
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Colorado State University Research Foundation, Ft. Collins, CO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6060281		20000509
APPLICATION INFO.:	US 1995-482304		19950607 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-408120, filed on 20 Mar 1995, now patented, Pat. No. US 5804200 which is a continuation of Ser. No. US 1993-3257, filed on 12 Jan 1993, now abandoned which is a continuation-in-part of Ser. No. US 1991-654226, filed on 12 Feb 1991, now abandoned And a continuation-in-part of Ser. No. US 1994-225479, filed on 8 Apr 1994, now abandoned And a continuation-in-part of Ser. No. US 1993-101283, filed on 3 Aug 1993, now abandoned which is a continuation of Ser. No. US 654226 And a continuation-in-part of Ser. No. WO 1994-US679, filed on 12 Jan 1994, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Minnifield, Nita
ASSISTANT EXAMINER: Masood, Khalid
LEGAL REPRESENTATIVE: Sheridan Ross P.C.
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Figure(s); 13 Drawing Page(s)
LINE COUNT: 4349
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to parasitic helminth PLA2 proteins; to parasitic helminth PLA2 nucleic acid molecules, including those that encode such proteins; to antibodies raised against such proteins; and to compounds that inhibit parasitic helminth phospholipase A.sub.2 activity. The present invention also includes methods to obtain such proteins, nucleic acid molecules, antibodies, and inhibitors. Also included in the present invention are therapeutic compositions comprising such proteins, nucleic acid molecules, antibodies, and/or inhibitors as well as the use of such therapeutic compositions to protect animals from diseases caused by parasitic helminths.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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